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Advanced Search

Search Tips

Boolean Search

Within all of the search fields, the Boolean Operator allows you to perform searches that specify logical relationships between terms. The relationship between the terms you enter is established by the operator you use. **Except for the Author field.** To do a search for multiple authors you must include an AND between each author's name.

Phrases

To bypass the default use of the AND relationship between the terms you enter, wrap your terms in quotes. This will create a search for the specific phrase you have enclosed in quotes.

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Wildcards allow you to construct a query with approximate search terms. Use a question mark (?) in a search term to represent any one character and use an asterisk (*) to represent zero or more characters. There are two limitations of wildcards: you cannot use a wildcard at the beginning of a search term or in a phrase enclosed in quotation marks.

Stemming

You can expand your search by enabling stemming. Simply check the checkbox that appears just before the Journal Titles heading in the Search Criteria. For more information, see [Stemming in the Search Criteria](#).

Enabling stemming allows you to search for the root of a word. For example, if you have searched for "nanotubes", your search will also include results from the term "nanoscience" because the root word is "nano".

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If you want to search within specific journals, click on the "Modify" button in the "Journal Titles" section. A box displaying all of the ACS Publications journals will appear. When you are finished selecting journals, make sure to click the "Update" button to save your selection. [[Show me the Journal Selector section in the Search Criteria](#)]

Note that if you do not have JavaScript enabled in your browser, the journal selector uses a different interface.

and NOT (also -) allow you to search for an AND relationship between terms. For multiple authors you should wrap your terms in quotes.

A question mark (?) in a search term allows for zero or more characters. For example, the use of a question mark in a search term or in a search term that appears just before the "OR" operator in the Search Criteria section.

Do not use the asterisk (*) as a wildcard character in your search. For example, "hydro*gen" will also search for "hydrogen" and "hydrogens".

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You can expand your search by enabling stemming. Simply check the checkbox that appears just before the Journal Titles heading in your Search Criteria. [\[Show me the stemming option in the Search Criteria\]](#)

Enabling stemming will automatically include the root terms of the words you have used in your search. For example, if you have stemming enabled and are searching for the word "nanotubes", your search will also include results from the singular form of the word "nanotube", as well as other words using the root term "nano" such as "nanoscience", "nanoscale", etc.

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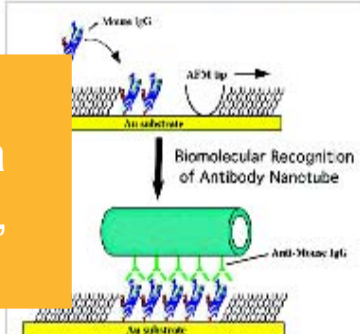
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Biological Bottom-Up Assembly of Antibody Nanotubes on Patterned Antigen Arrays
Nurxat Nuraje, Ipsita A. Banerjee, Robert I. MacCuspie, Lin Hiroshi Matsui
J. Am. Chem. Soc., 2004, 126 (26), pp 8088-8089
Publication Date (Web): June 17, 2004 (Communication)
DOI: 10.1021/ja048617u

Biological Bottom-Up Assembly of Antibody Nanotubes on Patterned Antigen Arrays ... Here we introduced a new type of building block, antibody nanotubes ... Biological recognition between the antibody nanotubes and the antigen arrays permitted recognition-driven assembly of ordered nanotube arrays. ...



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Hiroshi Mats...
J. Am. Chem...
Publication
DOI: 10.1021...

Biological Bottom-up Assembly of Antibody Nanotubes on Patterned Antigen Arrays ... Here we introduced a new type of building block, antibody nanotubes ... Biological recognition between the antibody nanotubes and the antigen arrays permitted recognition-driven assembly of ordered nanotube arrays. ...

The diagram illustrates the assembly of antibody nanotubes. It shows a substrate with a patterned surface. The process involves the recognition and assembly of antibody nanotubes (green cylinders) onto the substrate, forming a structured array. Labels include 'Virus (G)', 'AFM tip', 'Substrate', and 'Antibody Nanotube'.

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Página de resultados

Org. Lett. (67)

Manuscript Type

- Article Commentary (451)
- Correction (30)
- Editorial (27)
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- In Brief (12)

Author

- Iijima, Sumio (90)
- Bando, Yoshio (64)
- Yudasaka, Masako (57)
- Golberg, Dmitri (54)
- Dai, Hongjie (50)
- Hauge, Robert H. (45)
- Liu, Zhongfan (42)
- Kaneko, Katsumi (42)
- Liu, Jie (41)
- Sun, Ya-Ping (40)
- Tour, James M. (39)
- Smalley, Richard E. (38)
- Qian, Yitai (38)
- Haddon, Robert C. (37)
- Strano, Michael S. (35)
- Lieber, Charles M. (34)
- Xia, Younan (34)
- Park, Jeunghhee (34)
- Prato, Maurizio (34)
- Kanoh, Hirofumi (33)

Date Range

Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes

Ernesto Joselevich Charles M. Lieber

Nano Lett., 2002, 2 (10), pp 1137-1141

Publication Date (Web): August 30, 2002 (Letter)

DOI: 10.1021/nl025642u

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Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes ... Statistical analysis of the nanotube angular distribution indicates that field-directed growth can discriminate between metallic and semiconducting nanotubes during their formation. ...

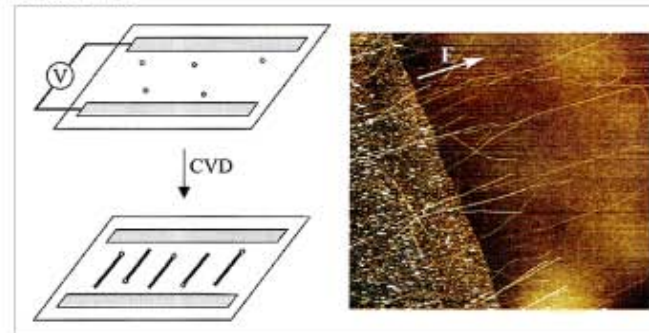


Figure 1 of 5

Next

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Nanotube Radio

Wang, J. Weldon, H. Garcia, and A. Zettl

Nano Lett., 2007, 7 (11), pp 3508-3511

Publication Date (Web): October 31, 2007 (Letter)

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... most strikingly the solid-state transistor transformed the radio from a power-hungry, and stationary unit to a device that could be carried in a shirt pocket.¹ Today, the same silicon-based technology that gave us the



Página de resultados

Qian, Yitai (38)
Haddon, Robert C. (37)
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Lieber, Charles M. (34)
Xia, Younan (34)
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Nanotube Radio

K. Jensen, J. Weldon, H. Garcia, and A. Zettl

Nano Lett., 2007, 7 (11), pp 3508-3511

Publication Date (Web): October 31, 2007 (Letter)

DOI: 10.1021/nl0721113

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Perhaps most strikingly the solid-state transistor transformed the radio from a bulky, power-hungry, and stationary unit to a device that could be carried in a shirt-pocket.¹ Today, the same silicon-based technology that gave us the transistor is fast approaching hard physical limits, and it is expected that future progress will require new nanoscale materials,² for example carbon nanotubes ...³⁻⁶ Combining many of the unique electrical and mechanical properties of carbon

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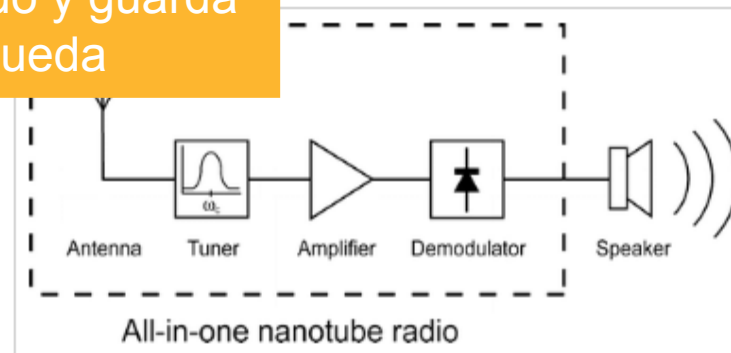


Figure 1 of 5

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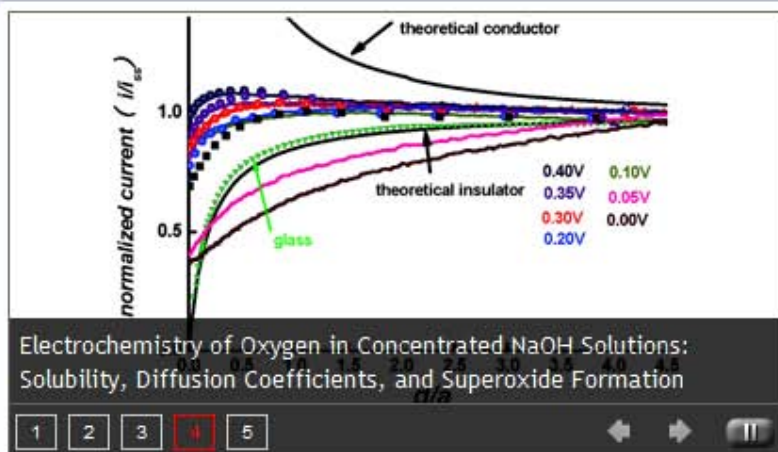
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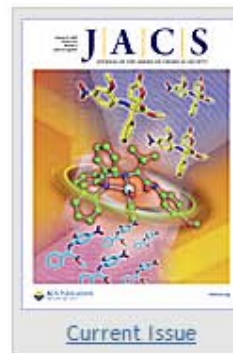
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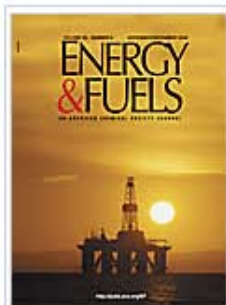
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In this issue:

- » CATALYSIS AND KINETICS
- » FOSSIL FUELS
- » MATERIALS
- » COMMUNICATIONS

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Abstract

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◀ Prev. | Next ▶ Table of Contents

Passive Air Sampling of Polychlorinated Biphenyls and Organochlorine Pesticides at the Korean Arctic and Antarctic Research Stations: Implications for Long-Range Transport and Local Pollution

Sung-Deuk Choi^{†‡}, Song-Yee Baek[‡], Yoon-Seok Chang^{*†}, Frank Wania[‡], Michael G. Ikonomou[§], Young-Jun Yoon^{||}, Byong-Kwon Park^{||} and Sungmin Hong^{||}

School of Environmental Science and Engineering, Pohang University of Science and Technology (POSTECH), San 31, Hyoja-dong, Nam-gu, Pohang 790-784, Republic of Korea, Department of Physical and Environmental Sciences, University of Toronto Scarborough, 1265 Military Trail, Toronto, Ontario, Canada M1C 1A4, Contaminant Sciences, Institute of Ocean Sciences, Fisheries and Oceans Canada (DFO), 9860 West Saanich Road, Sidney, British Columbia, Canada V8L 4B2, and Korea Polar Research Institute, Songdo Techno Park, 7-50, Songdo-Dong, Yeonsu-Gu, Incheon P.O. Box 32, 406-840 Republic of Korea

Environ. Sci. Technol., 2008, 42 (19), pp 7125-7131

DOI: 10.1021/es801004p

Publication Date (Web): September 4, 2008

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[‡] University of Toronto Scarborough.

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[§] Institute of Ocean Sciences, Fisheries and Oceans Canada.

^{||} Korea Polar Research Institute.

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Environ. Sci. Technol., 2008, 42 (19), pp 7125-7131

DOI: 10.1021/es801004p

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|| Korea Polar Research Institute.

Abstract

To assess levels and patterns of polychlorinated biphenyls (PCBs) and organochlorine pesticides (OCPs) in polar regions, XAD-resin based passive air samplers were deployed for one year at the Korean polar research stations at Ny-Ålesund, Norway (2005–2006) and King George Island, Antarctica (2004–2005). Backward trajectories suggest that these stations are affected by long-range transport from source regions in Northern Europe and Russia and the southern tip of South America, respectively. Relatively high levels of PCB-11, averaging $60 \text{ pg}\cdot\text{m}^{-3}$, were observed in Antarctica, suggesting an unusual source of PCB-11 to the Southern Hemisphere. Reflecting the hemispheric distribution of global PCB emissions, the average level of $\Sigma_{205}\text{PCB}$ (excluding three mono-CBs and PCB-11) was five times higher in the Arctic ($95 \text{ pg}\cdot\text{m}^{-3}$) than in the Antarctic ($19 \text{ pg}\cdot\text{m}^{-3}$). Levels of $\Sigma_9\text{PCB}$ at Ny-Ålesund were similar to those reported for other Arctic sites, while levels at King George Island were lower than at other sites on the Antarctic Peninsula but 1 order of magnitude higher than background levels measured at a more remote Antarctic site. Light homologues were

History

Published In Issue
October 01, 2008

Article ASAP
September 04, 2008

Received: April 10, 2008
Revised: July 16, 2008
Accepted: July 28, 2008

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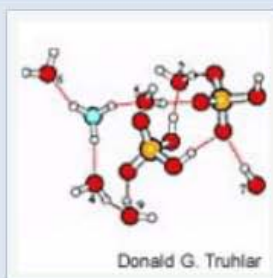
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Table Of Contents»

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01 02 03 04 05 06 07

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[January](#) | [February](#) | [March](#) | [April](#) | [May](#)

January

January 5, 2009
Vol. 87, issue 1



January 12, 2009
Vol. 87, issue 2



January 19, 2009
Vol. 87, issue 3



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Vol. 87, issue 4



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HEALTH

Containing Swine Flu

FDA authorizes unapproved diagnostic test, new uses for drug

Britt Erickson and Lisa Jarvis

U.S. OFFICIALS are scrambling to deal with an outbreak of swine flu that is believed to have originated in Mexico and is rapidly spreading across the globe. Tests have confirmed that hundreds of people in at least 11 other countries, including the U.S., have been infected with the newly discovered [swine influenza A \(H1N1\) virus](#).

The [Food & Drug Administration](#) has responded to the threat by authorizing the emergency use of certain antiviral drugs to treat the virus and an unapproved laboratory test to help detect it.

FDA's action allows physicians to give the oral drug Tamiflu to children less than a year old and authorizes the broader distribution of Tamiflu and the inhalant Relenza. News of FDA's emergency authorizations led to a jump in the shares of [Roche](#), [Gilead Sciences](#), and [GlaxoSmithKline](#), which make the approved antiviral drugs.

The action also authorized the [Centers for Disease Control & Prevention](#) (CDC) to distribute its real-time reverse transcriptase polymerase chain reaction Swine Flu Panel diagnostic test to qualified public health labs, even though the test has not been approved by FDA.

The diagnostic works by amplifying viral genetic material from a nasal swab.

"A positive result indicates that the patient is presumptively infected with



Dreamstime

People in Aguascalientes, Mexico, take precautions to avoid spreading and contracting influenza.

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